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AIP report MANPOWER STATISTICS DIVISION

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ENROLLMENTS AND DEGREES

AIP Pub. No. R-151.17 by Susanne D. Ellis March 1980

As the decade of the 1970's ends, total physics enrollments and degrees appear to have leveled off, and students redistributed themselves among a decreasing number of available physics programs. The large universities have tried to maintain their graduate enrollments by admitting more foreign students, while the 4-year colleges registered a 10% increase in physics majors in one year.

At the beginning of the academic year 1979–80 the total number of institutions granting physics, and or, astronomy degrees was 763. These institutions included those with two physics departments, those with separate physics and astronomy departments, and those with combined physics and astronomy departments. **Table I** presents the changing number of institutions for the past five years, and classifies them by highest physics degree offered.

Table I. Institutions by highest physics degree offered, 1975–80.

Academic year	Doctorate granting	Master's granting	Bachelor's granting est.
1975–76	171	116	524
1976–77	173	114	515
1977–78	172	110	506
1978–79	170*	104	502
1979–80	166*	96	501

* *Five of these institutions have two physics doctorate-granting departments; the second one is generally an applied physics department. They are Stanford U., U. of CA-Davis, U. of CA-San Diego, Harvard U. and Cornell U.*

The annual Survey of Enrollments and Degrees enters its third decade this year and has the distinction of summarizing the data of nearly 100% of the 808 degree-granting physics and astronomy departments. The trends that can be observed in **Figure I** start with the largest class of physics bachelors, the class of 1969, and clearly indicate the leveling in recent years of all degrees: bachelor's degrees just under 4500, master's degrees above 1400 and doctorates around 1000. The numerical data for **Figure I** are presented as part of **Table II** which also includes undergraduate and graduate physics enrollments. By expanding **Table II** to distinguish between the three types of physics departments, one generates **Table III.**

Fig. I. Physics degrees awarded by academic year 1968–79

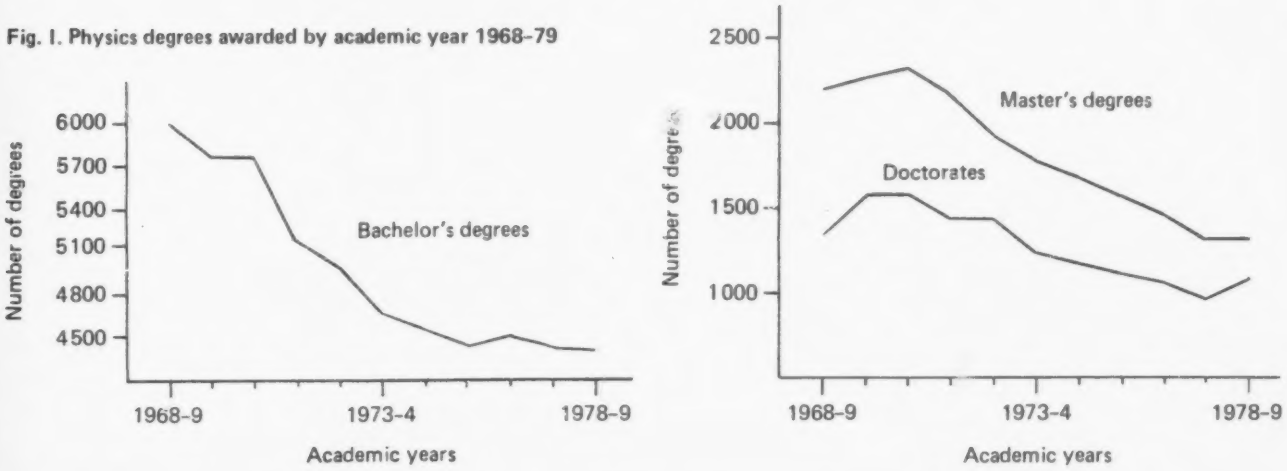


Table II. Physics enrollments and degrees awarded by academic year 1968–80.

Academic year	Number of physics degrees granted (July 1 to June 30)			Undergraduate physics-major enrollment		Graduate physics-student enrollment	
	Bachelor's	Master's	Doctorate	Juniors	Seniors	Total	1st year*
1968–69	5975	2223	1355	7587	7019	15475	3669
1969–70	5782	2268	1545	7480	6700	14372	3918
1970–71	5755	2300	1530	6884	6663	14327	3494
1971–72	5282	2142	1438	6593	6162	13276	3336
1972–73	4923	1961	1445	6012	5806	11804	2904
1973–74	4652	1772	1236	5858	5108†	11119	2680
1974–75	4571	1650	1167	5660	4909†	10410	2668
1975–76	4487	1570	1111	5888	4922†	10372	2646
1976–77	4517	1469	1051	5711	4930†	9991	2624
1977–78	4457	1422	971	5820	4975††	9835	2499
1978–79	4416	1428	1033	5835	4964	9813	2458
1979–80				5696	4942	9647	2439

* *Includes part-time students who might be at the 1st-year level for more than one year.*

† *This total has been adjusted by 500 for students who are seniors for more than one year.*

†† *This total has been adjusted by 300 students who are seniors for more than one year.*

Table III. Undergraduate and graduate enrollments and degrees by institution type, 1968–80.

Academic year	Number of physics degrees granted (July 1 to June 30)			Undergraduate physics-major enrollment		Graduate physics-student enrollment	
	Bachelor's	Master's	Doctorate	Juniors	Seniors	Total	1st year
				Doctorate granting institutions			
1968–69	2994	1850	1355	3794	3699	13633	2998
1969–70	3036	1804	1545	3869	3369	12779	3202
1970–71	2868	1817	1530	3510	3490	12400	2658
1971–72	2502	1640	1438	3082	2987	11434	2449
1972–73	2265	1484	1445	2787	2717	10227	2177
1973–74	2155	1387	1236	2844	2484	9759	2169
1974–75	2191	1318	1167	2780	2420	9295	2205
1975–76	2182	1249	1111	2983	2505	9241	2163
1976–77	2184	1186	1051	2862	2502	8867	2182
1977–78	2218	1164	971	2851	2590	8852	2138
1978–79	2158	1183	1033	2937	2579	8864	2107
1979–80				2696	2491	8744	2072
				Master's granting institutions			
1968–69	1029	373		1335	1270	1842	671
1969–70	1022	464		1281	1274	1593	716
1970–71	1044	483		1220	1175	1927	836
1971–72	982	503		1238	1210	1842	887
1972–73	820	477		1145	1086	1577	727
1973–74	810	385		939	893	1360	511
1974–75	699	332		881	741	1115	463
1975–76	604	321		916	811	1131	483
1976–77	658	283		840	761	1078	442
1977–78	590	258		832	752	983	361
1978–79	541	245		795	694	949	351
1979–80				705	650	903	367
				Bachelor's granting institutions			
1968–69	1952			2458	2050		
1969–70	1724			2330	2057		
1970–71	1843			2154	1998		
1971–72	1798			2273	1965		
1972–73	1838			2080	2003		
1973–74	1687			2075	1731		
1974–75	1681			1999	1748		
1975–76	1701			1989	1606		
1976–77	1675			2009	1667		
1977–78	1649			2137	1633		
1978–79	1717			2103	1691		
1979–80				2295	1801		

Table IV. Introductory physics enrollments in physics-degree-granting institutions by geographic region 1975–80

Geographic region †	1975–76	1976–77	1977–78	1978–79	1979–80
New England	22125	23139	28847	21228	18797
Mid. Atlantic	47861	44919	44839	42652	41555
E.N. Central	52412	50123	51598	50434	50843
W.N. Central	21406	22018	22253	21115	21805
S. Atlantic	37014	36272	38519	33097	33966
E.S. Central	14643	14900	15003	14835	14829
W.S. Central	30089	32956	29968	26768	28563
Mountain	18716	18786	20490	19342	20752
Pacific	34252	34628	32635	32084	31318
Total	278518	277741	284152	261555	262429

†New England—*Conn., Me., Mass., N. Hamp., R.I., Vt.;* Middle Atlantic—*N.J., N.Y., Pa.;* East North Central—*Ill., Ind., Mich., Ohio, Wisc.,* West North Central—*Iowa, Kansas, Minn., Mo., Nebr., N. Dak., S. Dak.;* South Atlantic—*Del., D.C., Fla., Ga., Md., N.C., S.C., Va., W.Va.;* East South Central—*Ala., Ky., Miss., Tenn.;* West South Central—*Ark., La., Okla., Tex.;* Mountain—*Ariz., Colo., Idaho, Mont., Nev., N. Mex., Utah, Wyo.;* Pacific—*Alas., Cal., Hawaii, Oreg., Wash.*

The analysis by type of institution indicates a significant change from earlier years. While institutions with graduate physics departments are registering new lows among undergraduate physics majors, the 4-year physics institutions recorded the largest number of junior physics majors in ten years.

The first-year graduate students shown in the last column of **Tables II** and **III** changed by less than 1% for the total, however, 30% of those 2439 graduate students are foreign students, an increase from 25% in earlier years. It is important to call attention to the first-year graduate enrollment at the doctorate-granting institutions and how relatively constant it remained since 1972–73; these totals are used in projecting the number of physics doctorates granted five years later.

Having presented a comprehensive summary of physics enrollments in the first three tables of this report, **Tables IV** through **X** focus on a detailed analysis of the physics pipeline.

When compared with other disciplines such as chemistry, engineering or the social sciences, physics attracts a relatively small number of majors. Introductory physics, on the other hand, is frequently a required course for engineering or health-related majors and thus enrolls over a quarter of a million freshman-sophomore level students.

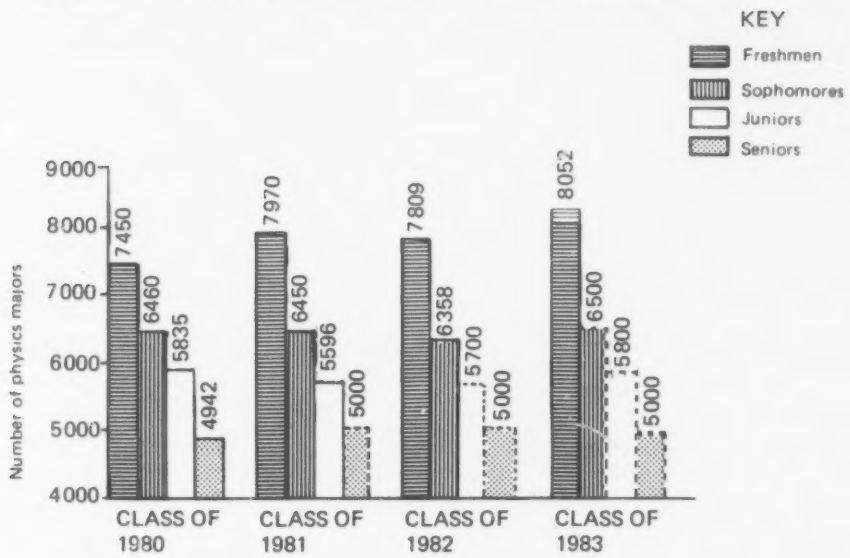
Table IV shows a five-year enrollment trend for each of nine geographic regions which appears to level off just above 260,000. The more detailed analysis of the 1979–80 introductory enrollments is presented in **Table V** where prospective engineering majors at non-PhD-granting institutions register the largest percentage increases from the previous year. The recent greater demand for bachelor's level engineers probably accounts for these changes.

Table V. Introductory physics enrollments 1979–80

Enrollment in introductory physics courses designed for:	Institution type* I		II		III		Total	
	N	%	N	%	N	%	N	%
engineering majors	18689	28.6	12923	33.5	60708	38.3	92320	35.2
physical science majors	13526	20.7	5362	13.9	29007	18.3	47895	18.3
biology, health-related majors	20649	31.6	10918	28.3	44857	28.3	76424	29.1
others	12481	19.1	9374	24.3	23935	15.1	45790	17.4
Total introductory N	65345		38577		158507		262429	
enrollment %	24.9%		14.7%		60.4%			100%

* *"Institution type" indicates the highest degree offered; type I = bachelor's degree, type II = master's degree, type III = doctorate.*

Fig. II. Actual and projected number of undergraduate physics majors



Note: Each cluster of four bars shown in **Figure II** *depict the freshmen, sophomores, juniors and seniors of four successive graduating classes. The most recent estimate of freshman physics majors is that for 1979–80 and added up to 8052. Based on the attrition of earlier classes, 5000 of them are expected to become seniors in 1982–83 and are presented above as the "class of 1983".*

With an increasing number of chairmen providing estimates of their prospective physics majors, it is possible to compute the attrition rates that occur in four years of undergraduate study. Thus the first set of bars in **Figure II** follows the 1976–77 freshman physics majors through four years of undergraduate study to become the graduating class of 1980 physics bachelors. As the bargraph of **Figure II** shows there is little variation in the number of freshmen who consider majoring in physics; consequently the number of seniors derived from each group, is expected to remain at 5000 a total which has not changed for almost a decade.

Table VI. Undergraduate physics majors by geographic region and type of institution, 1979–80

Geographic region*	Estimated** no. of freshmen	Estimated** no. of sophomores	Number of juniors	Number of seniors	Fifth-year undergraduates
New England	652	598	545	516	23
Mid. Atlantic	1419	1133	983	830	71
E.N. Central	1416	1086	855	805	54
W.N. Central	599	487	429	367	21
S. Atlantic	1159	906	731	619	54
E.S. Central	379	303	237	179	27
W.S Central	826	593	559	458	30
Mountain	548	393	349	371	44
Pacific	1054	859	908	797	199
Total	8052	6358	5596	4942	523
Doctorate-granting inst.	3602	2924	2696	2491	256
Master's-granting inst.	991	758	705	650	91
Bachelor's-granting inst.	3459	2676	2295	1801	176

* *See Table IV for explanation of geographic region.*
** *Estimates of potential physics majors made by the physics department chairmen.*

Table VII. Full-time and part-time graduate physics enrollment by type of institution 1973–80.

Academic year	Number of first-year graduate students			Total number of graduate students						
	Institution type*			Institution type*						
	II	III	Total	II			III			
				Full-time	Part-time	Sub-total	Full-time	Part-time	Sub-total	Total
1973–74	511	2169	2680	734	626	1360	8810	949	9759	11119
1974–75	463	2205	2668	623	492	1115	8326	969	9295	10410
1975–76	483	2163	2646	628	503	1131	8439	802	9241	10372
1976–77	442	2182	2624	576	507	1083	8119	789	8908	9991
1977–78	361	2138	2499	546	437	983	8174	678	8852	9835
1978–79	351	2107	2458	468	481	949	8185	679	8864	9813
1979–80	367	2072	2439	550	353	903	8059	685	8744	9647

**Institution type indicates the highest physics degree offered: type II = master's degree, type III = doctorate.*

Although most physics departments do not require their undergraduates to declare a major until the beginning of the junior year, the large number of courses required to major in physics make an early decision practical. Thus chairmen are in a position to supply estimates of freshman and sophomore level physics majors summarized in **Table VI**.

In recent years the number of seniors appeared to be disproportionately large when compared with the number of students receiving bachelor's degrees at the end of each year. Several checks disclosed that some undergraduates remain seniors for more than one year to complete all the requirements for the bachelor's degree. By asking chairmen to separate the number of fifth-year undergraduates from the others, we avoided counting one-tenth of the seniors twice. The last column in **Table VI** shows how these 523 fifth-year seniors distributed themselves geographically and by type of institution.

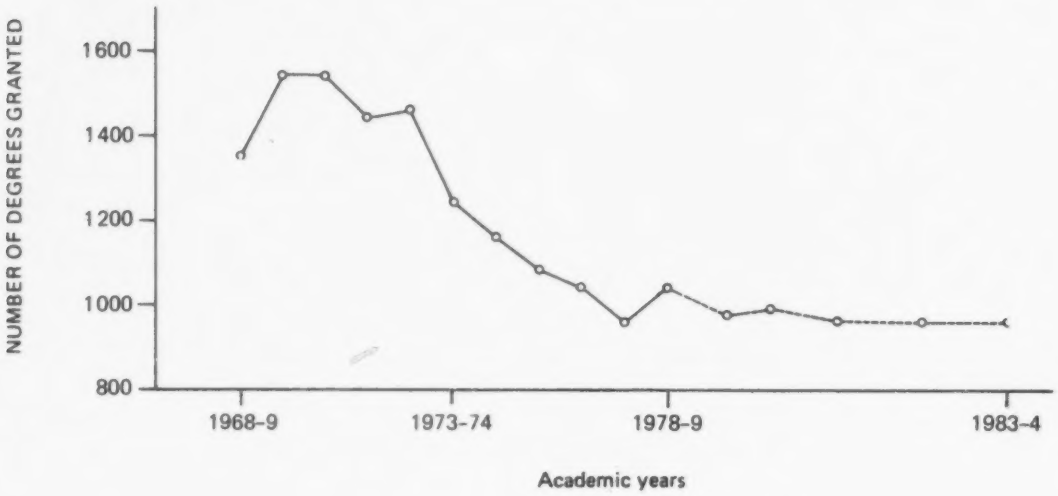
When comparing disciplines of graduate study, a higher proportion of physics students are assured of financial support and study on a full-time basis. The proportions for the latter can be calculated from the data shown in **Table VII**, while **Table VIII** addresses itself to an overabundance of sources of support for first-year graduate physics students. The distribution of unfilled assistantships was by no means uniform throughout the U.S., and ranged from 2% for the Pacific region's first-year students to 50% for the East South Central region. As many as ten institutions in seven different regions of the U.S. each reported six or more unfilled assistantships. The question of unfilled assistantships for first-year graduate students was added to the questionnaire in response to concerns expressed by physics department chairmen.

Table VIII. Doctorate-granting institutions reporting unfilled assistantships for first-year graduate physics students, September 1979

Geographic region*	No. of unfilled assistantships				Approximate no. of unfilled assistantships	No. of 1st yr. grad. students
	None	1–2	3–5	≥6		
New England	11	4	2	0	15	248
Mid. Atlantic	17	5	5	2	40	401
E.N. Central	11	1	4	1	25	347
W.N. Central	5	2	3	1	20	92
S. Atlantic	12	4	4	0	20	227
E.S. Central	3	2	4	1	26	50
W.S. Central	8	2	1	2	20	127
Mountain	8	3	0	2	18	135
Pacific	14	1	0	1	8	445
Total no. of institutions reporting	89	24	23	10	192	2072

* *See Table IV for explanation of geographic region.*
Note: 20 institutions did not answer the question on unfilled assistantships.

Fig. III. Actual and projected number of physics doctorates granted 1968–1984.



The median number of years of graduate study to complete a physics doctorate is five, with a range from three to more than ten years. As mentioned in connection with **Table III**, the number of physics doctorates granted each year correlates well with the number of first-year graduate students enrolled at PhD-granting institutions five years earlier. Also, as the number of first-year students decreased, a larger percentage of them eventually received doctorates. Back in the mid-1960's when there were 3500 first-year graduate students less than 40% of them completed their doctoral studies. The total first-year graduate students from which the 1979 doctorate recipients were drawn was 2205, thus 47% of them were granted doctorates. The flat projected portion of **Figure III** reflects the known leveling of the first-year graduate enrollment.

Table IX offers details of where physics degrees are granted and by what types of institutions. Unlike the trend tables at the beginning of this report, **Table IX** distinguishes between degree recipients who enter the job market with a master's degree and those who are granted master's degrees enroute to higher degrees. While one would expect the latter group to be enrolled at PhD-granting institutions, there exists a small number of masters (62 in the class of 1979) who transfer from master's institutions to larger universities and continue their studies toward a PhD. It may be of interest to note that terminal master's degrees declined more rapidly than master's degrees enroute to higher degrees in the 1970's, (a decline of 47% for the former compared with 28% for the latter, since 1971).

Table IX. Physics degrees by type of institution and geographic region, 1978–79.

Geographic region*	Bachelor's degrees			Master's degrees		Terminal master's degrees		Doctorates
	Institution type**			Institution type**		Institution type**		Institution type**
	I	II	III	II	III	II	III	III
New England	155	15	409	0	78	0	61	151
Mid. Atlantic	368	46	413	3	153	19	78	221
E.N. Central	306	181	254	10	121	68	114	189
W.N. Central	177	40	101	4	22	19	22	38
S. Atlantic	260	53	263	12	70	23	56	120
E.S. Central	79	37	47	1	14	7	15	10
W.S. Central	133	64	133	7	45	18	16	70
Mountain	55	12	184	1	32	2	38	47
Pacific	184	93	354	24	178	27	70	187
Subtotal	1717	541	2158	62	713	183	470	1033
				775		653		
Total		4416			1428			1033

* *See Table IV for explanation of geographic region.*

** *Institution type indicates the highest physics degree offered; type I = bachelor's degree, type II = master's degree, type III = doctorate.*

Table X. Number of physics degrees granted by sex and minority group status, 1978–79.

Type of degree	Sex	Total no. of degrees	Minority groups								Total Minorities
			Blacks	Am. Ind.	Puerto Rican	Mex. Am.	Other Latin Am.	Asian Ind.	Oriental	Arab	
Bachelor's	Men	3948	85	6	3	11	16	9	56	16	202
	Women	468	13	1	1	0	2	2	7	2	28
	Total	4416	98	7	4	11	18	11	63	18	230
Master's enroute	Men	696	11	0	0	0	1	16	33	5	66
	Women	79	0	0	0	0	1	3	9	0	13
	Total	775	11	0	0	0	2	19	42	5	79
Terminal master's	Men	591	10	0	1	5	5	7	23	8	59
	Women	62	0	1	0	0	0	4	9	1	15
	Total	653	10	1	1	5	5	11	32	9	74
Doctorate	Men	967	10	0	3	1	7	33	53	3	110
	Women	66	0	0	0	0	0	6	8	0	14
	Total	1033	10	0	3	1	7	39	61	3	124

Sources: "1978–79 Survey of Physics and Astronomy Bachelor's Degree Recipients" AIP Pub. No. R-211.11

"1978–79 Graduate Student Survey" AIP Pub. No. R-207.12

A frequent request for information is the one dealing with the proportion of women and minorities among physics degree recipients. While department chairmen contribute some of these data, a large proportion of **Table X** is based on reports from individual graduates. The table identifies eight minority groups, the members of which received physics degrees in 1978–79. The last four of the eight groups listed include mostly foreign citizens some of whom return to their native countries. Noticeable among the minority groups is the higher proportion of women.

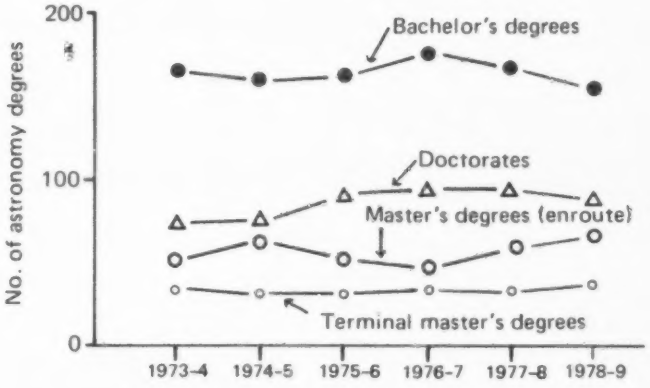
ASTRONOMY

Six years ago the scope of the Survey of Enrollments and Degrees was extended to include astronomy data. The total number of degree-granting astronomy departments is 70 for the academic year 1979–80; included in that total are two groups of doctorate-granting astronomy departments: eleven which are combined with physics departments in addition to 27 that function separately. For the first four years of this survey only 56 degree-granting astronomy departments contributed information consistently, while the other 20 or 25 departments responded only some of the time. In 1978 we made a thorough classification of all astronomy departments to determine the total number for that year and the highest astronomy degree granted by each.

The astronomy degree production shown in **Figure IV** presents estimated totals based on the 56 consistent reporters for the period 1973 to 1977; from 1978 on the data are based on responses from 100% of the departments.

Examining the trends shown in **Figure IV** all master's degrees appear to increase, especially those granted enroute to a higher degree. One factor that contributed to the slight decline in astronomy doctorates for the class of 1979 is a reclassification of doctorates by a few departments. The U. of Iowa for example gives only physics doctorates, even if the candidate's dissertation is in astronomy; consequently its doctorates were reclassified as physics. Other changes

Fig. IV Trend in astronomy degrees granted, 1973–79



included Michigan State U. and the U. of Oklahoma. The upper portions of **Tables XI** and **XII** deal with types of astronomy departments and the highest astronomy degrees they grant. Both tables present the same totals but **Table XII** analyzes the degree production with respect to sex; when compared with the previous year, a larger proportion of the astronomy degrees at all levels are conferred on women.

A supplement to this report offers a complete listing of all 70 astronomy departments with enrollment and degree data specified for each.

Table XI. Astronomy enrollments 1979–80 and degrees 1978–79 in separate and combined departments.

			39 separate astronomy departments	31 combined astronomy and physics departments	70 astronomy departments
	1978–79 ASTRONOMY DEGREES				
	Bachelor's		114	51	165
	Master's		67	6	73
	Terminal master's		35	7	42
	Doctor's		74	12	86
Introductory courses	1979–80 ASTRONOMY ENROLLMENTS				
	for science majors		1834	602	2436
	for nonscience majors		32668	5946	38614
	Subtotal		34502	6548	41050
	Astronomy offered in physics departments		-	-	60620
	Total introductory enrollment				101670
	Juniors		171	68	239
	Seniors		179	63	242
Graduate students	First-year	U.S.	117	19	136
		Foreign	18	0	18
		Total	135	19	154
	Total graduate students	Full-time	566	89	655
		Part-time	36	7	43
		Total	602	96	698

Table XII. Astronomy[+] enrollments 1979–80 and degrees 1978–79 by type of institution[*]

		Type I		Type II		Type III		Total	
No. of departments	Combined	16		4		11		31	
	Separate	5		4		30		39	
	Total	21		8		41		70	
		Men	Women	Men	Women	Men	Women	Men	Women
Astronomy degrees	Bachelor's	25	3	14	6	99	18	138	27
	Master's	-	-	5	0	57	11	62	11
	Terminal master's	-	-	8	1	30	3	38	4
	Doctor's	-	-	-	-	80	6	80	6
Astronomy enrollments 1979–80	Introd. courses for science majors	359		281		1796		2436	
	introd. courses for nonscience majors	4220		1242		33152		38614	
	introd. courses offered in physics departments	-		-		-		60620	
	Total introductory enrollments							101670	
	Junior astronomy majors	49		31		159		239	
	Senior astronomy majors	56		37		149		242	
	First-year graduate students	-		14		140		154	
	Total graduate students	-		43		655		698	

+ *This survey includes only degree-granting astronomy departments*

* *"institution type" indicates the highest astronomy degree offered; type I = bachelor's degree, type II = master's degree, type III = doctorate.*

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DATA ON PHYSICS ENROLLMENTS AND DEGREES

a SUPPLEMENT

AIP Pub. No. R-151.17A by Susanne D. Ellis March 1980

SUPPLEMENT

The detailed data from the annual Survey of Enrollments and Degrees are presented in this supplement. The 1978–79 physics degrees and the 1979–80 physics enrollments are listed for each physics degree-granting college or university in the fifty United States. Institutions are listed alphabetically by state. Those institutions with one asterisk in front of the name grant master's degrees as their highest physics degrees. Those institutions with two asterisks in front of the name grant doctor's degrees as their highest physics degrees. The data shown for each institution consist of undergraduate physics majors, full-time and part-time graduate students, first-year graduate students included in that total, and physics degrees granted at all levels. All freshmen and sophomore enrollments are estimated by the department chairmen. Numbers shown in brackets are estimates based on data supplied by that institution in an earlier year.

[1]No undergraduate degree program in physics

[2]Graduate degree program in physics discontinued

[3]Changed to physics master's degree program

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Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
ALABAMA										
AL A & M U.	6	8	5	2			3			
AL State U.	1	0	2	0			0			
**AL-U.of-Birmingham	10	3	3	8	19	7	1	0	2	0
**AL-U.of-Huntsville	7	6	4	5	40	9	5	1	2	0
**AL-U.of-University	30	20	5	0	10	2	1	2	2	0
**Auburn U.	9	11	4	16	16	5	3	2	3	1
Birmingham-Southern Col.	(3)	(2)	(2)	(1)			(1)			
Jacksonville State U.	7	5	1	2			1			
North AL-U.of	3	2	3	4			3			
Samford U.	(3)	(2)	(1)	(0)			(1)			
South AL-U.of	5	5	2	2			0			
Stillman Col.	4	0	3	1			3			
Talladega Col.	22	8	6	4			5			
Tuskegee Institute	2	2	2	2			0			
ALASKA										
**AK-U.of	3	2	3	6	14	7	3	2	0	3
ARIZONA										
**AZ State U.	18	30	21	25	32	9	8	0	4	2
**AZ-U.of	44	26	24	66	60	15	30	4	7	3
Northern AZ U.	8	8	8	5			8			
ARKANSAS										
AR State U.	8	4	4	2			1			
**AR-U.of-Fayetteville	25	28	14	9	23	8	7	2	2	2
AR-U.of-Little Rock	33	12	46	22			6			
AR-U.of-Monticello	2	2	3	2			2			
Central AR-U.of	5	5	4	5			5			
Harding Col.	3	2	1	3			1			
Henderson State U.	10	7	3	2			7			
Hendrix Col.	10	9	1	4			4			
Ouachita Baptist U.	2	1	8	2			5			
Southern AR U.	(6)	(5)	(4)	(3)			(2)			
CALIFORNIA										
**CA Institute of Tech.	(25)	23	23	20	106	24	21	6	2	17
CA Lutheran Col.	0	0	0	0			0			
CA Polytechnic State U.	(22)	(22)	(9)	(12)			(13)			
CA State Col.-Bakersfield	4	2	4	1			1			
CA State Col.-San Bernardino	2	2	3	2			2			
CA State Col.-Stanislaus	5	4	5	3			3			
CA State Poly.U.-Pomona	12	11	15	19			9			
CA State U.-Chico	3	3	3	3			3			
CA State U.-Dominguez Hills	5	3	4	13			4			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
CALIFORNIA (cont'd)										
*CA State U.-Fresno	13	10	10	11	18	3	5	1	5	
2*CA State U.-Fullerton	13	17	19	21			19	3	0	
2*CA State U.-Hayward	12	15	12	9	3	-	7	0	0	
*CA State U.-Long Beach	18	8	15	18	31	17	6	2	2	
*CA State U.-Los Angeles	7	4	3	14	23	(10)	2	3		
*CA State U.-Northridge	18	15	17	30	21	10	5	2	2	
CA State U.-Sacramento	11	10	9	11			5			
**CA-U.of-Berkeley	100	100	82	74	285	64	48	18	7	31
**CA-U.of-Davis	(15)	(15)	20	25	38	8	7	9	0	7
1**CA-U.of-Davis (Appl.Sci)	-	-	-	-	70	23	-	24	0	9
**CA-U.of-Irvine	45	30	29	52	55	22	20	5	2	10
**CA-U.of-Los Angeles	80	40	57	56	190	47	38	19	7	8
**CA-U.of-Riverside	10	8	19	11	44	9	8	8	4	6
**CA-U.of-San Diego (Physics)	52	39	47	52	111	20	24	21	0	8
**CA-U.of-San Diego (E.E.)	10	9	17	14	74	35	5	7	7	5
**CA-U.of-Santa Barbara	12	18	28	36	71	29	14	1	5	6
**CA-U.of-Santa Cruz	28	28	41	30	22	4	20	0	0	1
Claremont Men's, Pitzer & Scripps Cols.	(5)	(3)	(1)	(2)			(1)			
Harvey Mudd Col.	30	30	18	24			14			
Humboldt State Col.	15	12	10	16			8			
La Verne-U.of	2	2	2	2			2			
Loma Linda U.	4	3	1	2			3			
Loyola Marymount U.	1	5	4	0			5			
1**Naval Postgraduate School	-	-	-	12	16	16	-	0	16	0
Occidental Col.	40	18	12	12			10			
Pacific Union Col.	11	6	5	9			0			
*Pacific-U.of the	8	5	4	2	3	0	2	1		
Point Loma Col.	7	3	2	1			2			
Pomona Col.	11	10	10	5			10			
Redlands-U.of	(4)	(4)	(3)	(3)			(2)			
*San Diego State U.	35	25	30	30	26	8	8	6	15	
San Diego-U.of	2	2	1	3			0			
*San Francisco State U.	15	10	12	12	20	7	6	2	1	
San Francisco-U.of	5	5	5	5			7			
*San Jose State U.	18	13	24	28	17	6	21	7	0	
Santa Clara-U.of	13	9	5	7			6			
Sonoma State U.	12	9	21	28			5			
**Southern CA-U.of	(20)	(20)	19	18	46	14	20	4	5	7
**Stanford U.-(Physics)	10	5	14	29	109	25	18	13	0	34
1**Stanford U.-(Appl.Physics)	-	-	-	-	91	26	-	8	1	8
West Coast U.	(2)	(2)	(1)	(1)			(1)			
Whittier Col.	5	3	2	3			0			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors: Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students: Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
COLORADO										
Adams State Col.	0	0	(3)	3			1			
CO Col.	(2)	2	6	6			8			
**CO School of Mines	21	19	19	16	11	5	8	1	3	0
**CO State U.	31	15	9	16	39	7	4	3	4	4
**CO-U.of-Boulder	105	60	49	74	98	25	37	6	5	12
CO-U.of-Denver	15	20	10	5			2			
**Denver-U.of	33	19	8	5	21	9	7	0	1	2
Metropolitan State Col.	4	4	2	9			0			
*Northern CO-U.of	8	0	5	7	1	0	0	0	2	
Regis Col.	0	2	2	0			0			
Southern CO-U.of	5	5	2	5			7			
U.S. Air Force Academy	20	15	40	29			19			
Western State Col of CO	4	4	2	2			0			
CONNECTICUT										
*Bridgeport-U.of	3	5	5	3	14	7	7	0	0	
*Central CT State Col.	4	2	1	3	7	0	3	0	0	
CT Col.	4	3	1	3			3			
**CT-U.of	18	17	16	7	59	15	5	2	3	3
Fairfield U.	5	6	1	8			7			
Hartford-U.of	4	2	3	2			2			
New Haven-U.of	2	1	1	1			3			
Southern CT State Col.	(5)	(8)	(7)	(5)			(4)			
Trinity Col.	6	3	3	3			1			
U.S. Coast Guard Academy	7	4	2	5			6			
**Wesleyan U.	8	10	6	6	10	1	7	1	0	2
**Yale U.	50	40	40	25	89	20	24	8	1	10
DELAWARE										
DE State Col.	13	3	1	1			1			
**DE-U.of	22	17	12	10	45	11	5	7	1	1
DISTRICT OF COLUMBIA										
**American U.	10	5	20	9	45	35	4	2	1	4
**Catholic U. of America	7	3	3	3	45	1	0	1	0	2
DC-U.of	35	15	5	2			4			
**George Washington U.	3	5	7	3	3	1	4	0	0	1
**Georgetown U.	15	10	9	4	39	10	3	2	1	1
**Howard U.	(6)	(6)	5	8	35	5	4	2	4	3
FLORIDA										
Central FL-U.of (formerly FL Tech. U.)	22	13	7	7			9			
FL A & M U.	(5)	(5)	(3)	(3)			(2)			
*FL Atlantic U.	0	0	11	12	2	0	3	1	1	
*FL Institute of Tech.	18	5	5	5	17	10	9	5	1	
FL International U.	0	0	5	5			3			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Freshmen	Sophomores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
FLORIDA (cont'd)										
FL Southern Col.	(1)	(0)	(1)	(1)			(1)			
**FL State U.	25	25	29	19	49	11	17	6	2	10
**FL-U.of	27	21	48	22	44	13	5	0	2	2
Jacksonville U.	(10)	(10)	(8)	(4)			(5)			
**Miami-U.of	21	9	3	4	18	7	9	0	0	2
Rollins Col.	15	2	3	1			3			
*South FL-U.of	10	16	6	7	16	9	5	1	1	
Stetson U.	4	2	1	4			2			
West FL-U.of	0	0	12	12			7			
GEORGIA										
Agnes Scott Col.	1	3	3	0			1			
1*Atlanta U.	-	-	-	-	3	3	-	0	0	
Augusta Col.	6	3	4	2			2			
Berry Col.	0	0	1	2			1			
Clark Col.	10	5	10	6			4			
**Emory U. (Physics)	10	10	9	11	10	0	11	1	0	0
1*Emory U. (Radiology)	-	-	-	-	5	5	-	0	5	
**GA Institute of Tech.	(60)	(55)	52	49	61	10	39	6	6	5
GA Southern Col.	2	5	5	6			0			
*GA State U.	14	8	6	8	20	9	3	1	7	
**GA-U.of	14	15	8	6	24	10	5	2	5	1
Mercer U.	2	2	4	0			2			
Morehouse Col.	4	2	1	13			8			
North GA Col.	15	15	10	6			4			
Savannah State Col.	(1)	(1)	(2)	(2)			(2)			
Valdosta State Col.	6	9	4	1			4			
West GA Col.	39	15	9	1			5			
HAWAII										
HI-U.of-Hilo	2	2	0	0			0			
**HI-U.of-Honolulu	3	14	18	16	15	4	6	6	1	3
IDAHO										
Boise State U.	8	4	5	5			0			
*ID State U.	2	0	6	3	7	2	3	0	1	
**ID-U.of	9	6	10	6	12	4	7	0	0	0
Northwest Nazarene Col.	7	8	8	3			3			
ILLINOIS										
Augustana Col.	6	5	8	8			7			
Aurora Col.	1	0	2	0			1			
Bradley U.	5	4	3	4			4			
*Chicago-U.of	(30)	52	16	17	112	21	21	17	8	19
*De Paul U.	5	5	1	5	16	5	4	1	7	
Eastern IL U.	7	5	10	6			5			
Elmhurst Col.	13	10	6	10			2			
Eureka Col.	2	3	0	0			1			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
ILLINOIS (cont'd)										
Greenville Col.	(5)	(5)	(3)	(3)			(1)			
IL Benedictine Col.	2	5	5	4			2			
IL Col.	1	1	0	3			3			
**IL Institute of Tech.	15	8	5	8	11	3	9	1	0	2
IL State U.	47	26	13	16			4			
**IL-U.of-Chicago Circle	20	15	11	10	50	11	8	11	4	6
**IL-U.of-Urbana	117	69	61	53	275	48	36	27	4	40
IL Wesleyan U.	10	4	2	5			3			
Knox Col.	(6)	(6)	9	2			4			
Lake Forest Col.	6	5	10	4			3			
Lewis U.	(2)	(2)	(2)	(0)			(3)			
Loyola U.of Chicago(& Mundelein Col.	19	19	11	5			4			
Mac Murray Col.	0	0	1	1			1			
Milliken U.	2	1	1	1			1			
Monmouth Col.	7	3	3	5			2			
North Central Col.	(4)	(4)	(2)	(2)			(2)			
North Park Col.	2	2	0	2			0			
*Northeastern IL U.	10	9	6	8	17	4	3	0	3	
*Northern IL U.	22	32	13	16	23	6	16	0	7	
**Northwestern U.	4	4	7	7	22	11	10	3	0	8
Olivet Nazarene Col.	6	6	3	4			5			
Principia Col.	(3)	3	2	5			1			
Roosevelt U.	(2)	2	4	4			3			
*Southern IL U.-Carbondale	16	7	12	10	12	7	10	0	7	
*Southern IL U.-Edwardsville	10	8	12	6	10	6	9	2	1	
*Western IL U.	9	6	3	3	6	1	1	0	4	
Wheaton Col.	20	17	9	7			8			
INDIANA										
Anderson Col.	2	2	1	1			0			
*Ball State U.	4	9	6	6	9	6	8	0	2	
Butler U.	3	1	1	2			4			
DePauw U.	2	2	1	2			2			
Earlham Col.	(6)	6	5	4			1			
Evansville-U.of	2	3	2	2			2			
Franklin Col.of IN	2	1	2	2			0			
Goshen Col.	(4)	(4)	(2)	(3)			(2)			
Hanover Col.	4	4	4	1			4			
IN Central U.	(5)	(5)	(3)	(3)			(0)			
*IN State U.	6	5	1	7	16	4	5	1	3	
**IN U.-Bloomington	(10)	10	14	23	61	12	14	2	6	10
IN U.-South Bend	4	5	4	4			3			
IN U-Purdue U-Fort Wayne	6	6	7	1			1			
IN U-Purdue U-Indianapolis	20	8	5	3			2			
Manchester Col.	(4)	(4)	(2)	(2)			(2)			
**Notre Dame-U.of	27	19	7	14	27	7	8	0	1	5

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors: Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students: Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
INDIANA (cont'd)										
**Purdue U.	62	30	22	23	128	34	19	11	14	11
Purdue U.-Calumet	(2)	(2)	(3)	(3)			(4)			
Rose-Hulman Inst.of Tech.	14	15	9	7			4			
Taylor U.	(7)	(5)	(5)	(5)			(4)			
Valparaiso U.	10	6	4	3			4			
Wabash Col.	5	5	3	2			7			
IOWA										
Central Col.	4	5	3	3			1			
Coe Col.	10	8	9	3			3			
Cornell Col.	0	4	4	1			2			
Dordt Col.	5	1	2	0			2			
*Drake U.	9	5	4	2	2	1	1	0	2	
Dubuque-U.of	(1)	(0)	(0)	(0)			(0)			
Grinnell Col.	8	8	5	4			10			
**IA State U.	30	13	22	24	67	15	8	0	5	8
**IA-U.of	14	15	15	15	27	5	6	3	0	10
Loras Col.	2	2	1	0			2			
Luther Col.	16	12	6	8			7			
Morningside Col.	(2)	(2)	(2)	(3)			(2)			
*Northern IA-U.of	7	7	8	8	5	1	3	0	0	
St. Ambrose Col.	(2)	(2)	(2)	(4)			(0)			
Wartburg Col.	0	1	0	4			4			
KANSAS										
Baker U.	2	3	0	1			2			
Benedictine Col.	5	4	4	5			5			
Bethel Col.	5	3	3	0			0			
*Emporia State U.	3	3	4	2	3	2	0	1	1	
Fort Hays State U.	3	4	1	2			2			
**KS State U.	6	5	3	3	19	4	3	0	3	1
**KS-U.of	6	7	9	5	42	17	7	5	0	3
KS Wesleyan U.	(2)	(0)	(2)	(2)			(1)			
Mid-America Nazarene Col.	(4)	(3)	(0)	(2)			(0)			
Ottawa U.	(1)	(1)	(1)	(0)			(1)			
*Pittsburgh State U.	4	3	9	6	4	3	2	0	3	
Southwestern Col.	2	1	0	0			2			
Sterling Col.	0	0	0	0			2			
Washburn U.	2	3	2	2			0			
*Wichita State U.	4	4	2	4	9	5	3	2	3	
KENTUCKY										
Berea Col.	2	3	2	2			2			
Centre Col. of KY	(3)	(4)	(6)	(5)			(4)			
*Eastern KY U.	2	2	2	5	1	1	6	0	3	
Georgetown Col.	1	1	1	1			1			
**KY-U.of	27	17	15	9	21	5	2	1	1	1
KY Wesleyan Col.	1	1	1	2			0			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors incl. 5th-yr. Fresh-men	Sopho-mores	Jr's	Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
KENTUCKY (cont'd)										
*Louisville-U.of	2	4	3	3	9	6	5	4	0	
Morehead State U.	2	4	4	1			1			
*Murray State U.	35	40	25	21	2	2	16	0	2	
Northern KY U.	6	4	5	0			0			
Thomas More Col.	16	12	7	6			3			
Transylvania U.	2	3	4	6			6			
*Western KY U.	20	5	7	7	3	1	3	1	1	
LOUISIANA										
Centenary Col.	14	7	5	1			0			
Dillard U.	1	2	2	2			0			
Grambling State U.	7	4	5	3			4			
**LA State U.-Baton Rouge	18	12	9	11	36	7	3	3	4	1
LA State U.-Shreveport	10	4	3	0			4			
*LA Tech U.	6	3	4	3	19	1	3	0	0	
Loyola U.	10	0	7	1			3			
Mc Neese State U.	2	1	2	2			0			
**New Orleans-U.of	10	7	9	5	17	2	2	0	2	2
*Northeast LA U.	8	7	6	2	5	3	4	2	2	
*Northwestern State U.of LA	2	2	1	1	2	2	2	0	0	
Southeastern LA U.	6	3	2	2			1			
Southern U.-Baton Rouge	7	9	6	5			2			
Southern U.-New Orleans	(5)	(3)	(2)	(2)			(2)			
*Southwestern LA-U.of	5	8	5	3	1	0	3	0	1	
**Tulane U.	10	10	7	2	9	4	11	2	0	1
Xavier U. of New Orleans	1	0	1	0			0			
MAINE										
Bates Col.	8	8	6	10			7			
Bowdoin Col.	6	8	6	4			8			
Colby Col.	8	9	6	7			2			
**ME-U.of	24	33	28	18	23	7	27	2	1	0
MARYLAND										
Columbia Union Col.	(0)	(0)	(0)	(2)			(0)			
Frostburg State Col.	3	3	2	1			1			
**Johns Hopkins U.	14	15	12	11	60	12	8	6	1	12
Loyola Col.	2	10	7	2			2			
MD-U.of-Baltimore County	6	3	4	6			3			
**MD-U.of-College Park	24	31	30	34	187	28	18	10	9	34
Morgan State U.	12	8	6	4			3			
Notre Dame of MD-Col. of	0	0	0	0			0			
Towson State U.	20	16	15	7			9			
U.S. Naval Academy	56	31	50	38			34			
Washington Col.	2	1	0	1			0			
Western MD Col.	2	1	4	3			0			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors: Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students: Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
MASSACHUSETTS										
Amherst Col.	(10)	(10)	10	12			10			
**Boston Col.	18	16	13	14	28	5	8	2	1	3
**Boston U.	15	10	12	8	50	8	4	1	3	2
**Brandeis U.	8	11	9	16	50	15	12	1	3	5
Bridgewater State Col.	3	3	5	4			2			
**Clark U.	6	3	6	6	9	2	3	0	0	0
Curry Col.	(5)	(3)	(1)	(1)			(2)			
Eastern Nazarene Col.	3	3	0	4			2			
Emmanuel Col.	(1)	(1)	(2)	(0)			(2)			
Fitchburg State Col.	0	0	0	1	Program to be		0	terminated		
Gordon Col.	8	0	3	3			2			
Hampshire Col.	10	6	4	2			0			
**Harvard U.(incl. Radcliffe)	(50)	50	57	69	104	20	29	17	2	19
**Harvard U.(Applied Sciences)	0	9	7	10	159	25	53	18	13	26
Holy Cross-Col. of the	10	12	12	15			17			
**Lowell-U.OF	21	23	19	9	27	5	14	0	2	1
**MIT	100	85	82	84	272	52	95	12	7	48
**MA-U.of-Amherst	30	25	13	20	52	12	15	0	7	6
MA-U.of-Boston	5	5	5	2			6			
Mount Holyoke Col.	5	5	3	8			11			
North Adams State Col.	4	3	5	6			4			
**Northeastern U.	10	3	11	6	75	14	8	6	0	4
Smith Col.	6	4	7	4			4			
*Southeastern MA U.	3	7	5	4	2	1	4	0	0	
Stonehill Col.	2	2	1	2			2			
Suffolk U.	5	5	10	0			0			
**Tufts U.	(5)	5	9	8	17	4	9	1	3	1
Wellesley Col.	6	4	6	3			4			
Westfield State Col.	0	0	0	0			2			
Wheaton Col.	1	1	1	0			0			
Williams Col.	12	12	7	7			11			
**Worcester Polytechnic Inst.	20	20	11	12	7	3	17	1	4	0
Worcester State Col.	4	3	3	2			2			
MICHIGAN										
Adrian Col.	6	4	1	0			1			
Albion Col.	18	15	5	8			10			
Alma Col.	(4)	(4)	(3)	(3)			(4)			
*Andrews U.	4	6	4	3	2	2	3	0	2	
Calvin Col.	13	4	7	11			3			
*Central MI U.	10	8	5	2	4	1	5	0	1	
*Eastern MI U.	(10)	(10)	(8)	(8)	(18)	(8)	(7)	(0)	(5)	
Grand Valley State Col.	3	3	7	1			3			
Hillsdale Col.	1	1	2	0			0			
Hope Col.	8	8	8	6			5			
Kalamazoo Col.	10	10	11	10			10			
Lake Superior State Col.	1	0	0	0			0			
Lawrence Institute of Tech.	6	10	3	7			3			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
MICHIGAN (cont'd)										
**MI State U.	20	15	22	18	82	17	13	9	13	3
*MI Technological U.	20	17	8	15	3	1	11	0	0	
**MI-U.of-Ann Arbor	(40)	40	40	30	82	16	15	7	3	14
MI-U.of-Dearborn	10	10	13	8			3			
MI-U.of-Flint	(4)	(4)	3	6			6			
Northern MI U.	5	5	4	3			0			
*Oakland U.	18	18	14	21	13	5	15	4	1	
Saginaw Valley State Col.	3	3	5	1			6			
Spring Arbor Col.	4	0	2	0			0			
**Wayne State U.	6	11	14	9	30	12	4	0	4	5
*Western MI U.	19	7	5	11	15	3	5	0	3	
MINNESOTA										
Augsburg Col.	6	8	2	1			3			
Bemidji State U.	10	10	7	8			4			
Bethel Col.	(5)	(5)	(4)	(4)			(3)			
Carleton Col.	(15)	20	11	20			16			
Concordia Col.	5	5	2	5			5			
Gustavus Adolphus Col.	20	6	5	5			4			
Hamline U.	15	12	7	5			5			
Macalester Col.	10	5	13	6			3			
*Mankato State U.	10	8	10	8	13	3	4	0	2	
*MN-U.of-Duluth	9	4	6	7	6	2	2	1	2	
**MN-U.of-Minneapolis	21	23	35	24	76	18	29	3	9	4
MN-U.of-Morris	(10)	(10)	(7)	(8)			(4)			
Moorhead State U.	8	5	18	5			0			
St. Cloud State U.	(10)	(10)	(4)	(4)			(4)			
St. John's U.	8	7	10	2			5			
St. Mary's Col.	5	3	4	2			1			
St. Olaf Col.	40	20	10	14			11			
St. Thomas-Col.of	1	2	2	1			0			
Southwest State U.	(5)	(5)	(4)	(3)			(3)			
Winona State U.	3	3	3	2			3			
MISSISSIPPI										
Delta State U.	(1)	(0)	(1)	(1)			(1)			
Jackson State U.	13	8	2	2			3			
Millsaps Col.	2	2	2	1			0			
MS Col.	2	2	2	3			0			
**MS State U.	7	3	2	0	7	3	1	0	0	0
**MS-U.of	4	11	4	5	9	6	5	1	0	0
MS Valley State U.	(4)	(2)	(1)	(0)			(1)			
Rust Col.	(2)	(2)	(1)	(2)			(0)			
*Southern MS-U.of	4	4	3	5	3	2	2	0	0	
Tougaloo Col.	(6)	(6)	(6)	(3)			(2)			

Institution	1979 - 1980 PHYSICS ENROLLMENTS - Undergraduate physics majors				Graduate students		1978 - 1979 PHYSICS DEGREES			
	Fresh-men	Sopho-mores	Jr's	Incl. 5th-yr. Sr's	Total	1st yr.	Bach.	MS	TMS	PhD's
MISSOURI										
Central Methodist Col.	2	1	2	1			0			
Central MO State U.	1	2	3	5			4			
Drury Col.	1	2	1	1			1			
MO Southern State Col.	2	2	3	1			1			
**MO-U.of-Columbia	14	11	3	6	27	6	2	1	0	2
*MO-U.of-Kansas City	10	8	2	4	8	4	3	0	1	
**MO-U.of-Rolla	29	11	10	11	35	7	8	2	3	2
*MO-U.of-Saint Louis	(6)	(6)	(5)	(6)	(17)	(6)	(3)	(0)	(3)	
Northeast MO State U.	7	10	7	2			5			
Northwest MO State U.	5	3	0	1			2			
Rockhurst Col.	2	2	0	4			0			
**Saint Louis U.	4	3	2	5	6	0	5	0	1	3
*Southeast MO State U.	10	8	(6)	(6)	2	1	0	0	0	
Southwest MO State U.	0	10	7	7			6			
**Washington U.	30	24	19	14	59	10	13	5	0	1
Westminster Col.	1	1	1	0			1			
William Jewell Col.	10	8	8	6			3			
MONTANA										
**MT State U.	36	23	17	12	27	11	12	3	3	2
*MT-U.of	12	12	3	5	4	1	6	1	0	
NEBRASKA										
Chadron State Col.	3	4	4	4			3			
*Creighton U.	5	5	8	3	3	3	1	0	0	
Hastings Col.	4	6	3	3			4			
Kearney State Col.	(2)	(3)	(3)	(9)			(0)			
**NE-U.of-Lincoln	3	9	4	9	31	7	5	3	0	2
NE-U.of-Omaha	13	8	12	9			3			
NE Wesleyan U.	10	6	6	6			2			
Union Col.	0	2	1	0			0			
Wayne State Col.	0	0	4	0			0			
NEVADA										
*NV-U.of-Las Vegas	11	7	8	6	4	1	3	0	1	
**NV-U.of-Reno	3	1	4	1	17	4	3	1	2	2
NEW HAMPSHIRE										
**Dartmouth Col.	15	10	12	22	19	7	21	0	2	4
Keene State Col.	(6)	(6)	(5)	(3)			(2)			
**NH-U.of	16	23	9	14	24	5	6	2	4	3
NEW JERSEY										
Drew U.	3	3	4	3			1			
Fairleigh Dickinson U-Madison	5	1	2	3			2			
*Fairleigh Dickinson U-Teaneck	6	6	3	4	10	4	0	0	5	

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Freshmen	Sophomores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
NEW JERSEY (cont'd)										
Georgian Court Col.	15	15	3	0			1			
*Monmouth Col.	7	3	15	5	3	3	3	0	0	
Montclair State Col.	6	4	3	4			3			
**Princeton U.	70	70	22	28	84	21	26	11	0	20
Rider Col.	(1)	(1)	(1)	(1)			(0)			
**Rutgers U-Busch Campus	10	15	23	18	81	20	12	3	5	9
Rutgers U-Camden Col.of A&S	(6)	(4)	(3)	(6)			(4)			
Rutgers U-Newark Col.of A&S	(5)	(4)	(3)	(3)			(3)			
Saint Peters Col.	2	2	0	2			2			
Seton Hall U.	(5)	(4)	(4)	(3)			(6)			
**Stevens Institute of Tech.	15	13	10	21	64	16	15	4	1	7
Stockton State Col.	5	15	12	10			10			
Trenton State Col.	7	4	3	7			2			
NEW MEXICO										
Eastern NM U.	(1)	(1)	(1)	(1)			(1)			
NM Highlands U.	5	5	2	1			1			
**NM Institute of Mining&Tech.	16	12	9	11	19	5	13	3	0	3
**NM State U.	10	2	8	11	35	7	8	4	2	4
**NM-U.of	12	10	12	9	56	17	2	6	0	3
NEW YORK										
**Adelphi U.	10	9	6	2	29	5	3	1	0	0
Alfred U.	4	4	5	3			2			
Bard Col.	5	4	6	2			1			
**Brooklyn Col.	6	6	2	3	25	7	5	0	0	2
*C.W. Post Col.of L.I.U.	10	0	6	1	3	1	1	0	0	
Canisius Col.	(4)	4	0	1			2			
**City Col.of the CUNY	15	15	10	10	67	14	7	2	1	9
**Clarkson Col.of Tech.	21	10	8	9	18	5	15	2	2	3
Colgate U.	15	20	11	9			6			
**Columbia U-incl.Barnard Col	(10)	(10)	5	16	120	22	13	21	1	13
**Cornell U.-Physics	60	40	32	38	165	45	29	25	4	15
**Cornell U.-Appl.& Engr.Phys.	-	-	31	38	57	17	32	13	3	7
**Fordham U.	5	6	1	3	10	0	3	1	1	1
Hamilton Col.	20	12	3	4			3			
Hartwick Col.	3	0	1	3			0			
Herbert H. Lehman Col.of the CUNY	6	5	6	5			2			
Hobart & Wm. Smith Cols.	(3)	(3)	1	3			8			
Hofstra U.	3	3	3	2			3			
Houghton Col.	14	5	4	3			6			
**Hunter Col.of the CUNY	5	5	8	5	16	5	2	0	3	0
Iona Col.	10	3	5	2			5			
Ithaca Col.	4	2	2	2			5			
Le Moyne Col.	(2)	(2)	(2)	(2)			(3)			
Manhattan Col.	12	6	7	5			10			
NY Institute of Tech.	(5)	(5)	5	6			3			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Freshmen	Sophomores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
NEW YORK (cont'd)										
**NYU	25	15	10	8	81	18	7	3	6	7
Niagara U.	(4)	(4)	(4)	(4)			(3)			
**Polytechnic Inst.of NY	10	2	2	4	24	8	10	3	4	5
**Queens Col. of the CUNY	3	5	15	11	10	1	9	0	0	1
**Rensselaer Polytechnic Inst.	86	59	43	41	51	18	26	5	4	7
Roberts Wesleyan Col.	2	1	1	1			0			
Rochester Institute of Tech.	10	5	6	8			4			
**Rochester-U.of	35	25	14	11	61	12	8	11	1	16
1**Rockefeller U.	-	-	-	-	7	0	-	-	-	0
*Saint Bonaventure U.	7	3	1	1	5	3	1	1	0	
Saint John Fisher Col.	7	6	4	2			3			
2**Saint John's U.	5	5	4	2	-	-	2	0	0	1
Saint Lawrence U.	(5)	(5)	6	4			2			
Siena Col.	2	4	4	5			4			
**SUNY-Albany	30	30	34	29	41	14	14	7	3	3
3**SUNY-Binghamton	(10)	10	12	10	22	13	9	0	0	1
**SUNY-Buffalo	8	16	6	15	62	13	13	5	1	6
**SUNY-Stony Brook	(20)	20	28	23	157	43	36	6	5	28
SUNY Col.-Brockport	10	8	7	6			6			
SUNY Col.-Buffalo	(5)	(8)	(5)	(6)			(3)			
SUNY Col.-Cortland	57	24	20	7			5			
SUNY Col.-Fredonia	(10)	(10)	(7)	(7)			(6)			
*SUNY Col.-Geneseo	(15)	(13)	(10)	(14)	(8)	(8)	(4)	(0)	(3)	
*SUNY Col.-New Paltz	(3)	(3)	(6)	(7)	(4)	(2)	(4)	(0)	(2)	
SUNY Col.-Oneonta	15	16	18	18			17			
SUNY Col.-Oswego	12	16	10	8			8			
SUNY Col.-Plattsburgh	25	12	5	6			2			
SUNY Col.-Potsdam	40	20	17	20			10			
Staten Island-Col.of	2	2	2	1			0			
**Syracuse U.	34	10	9	8	39	6	4	2	2	4
Union Col.	5	4	4	1			6			
Utica Col.of Syracuse U.	3	1	5	5			1			
Vassar Col.	4	5	7	4			8			
Wagner Col.	12	8	5	3			2			
2**Yeshiva U.	2	2	2	2	2	0	3	0	0	3
York Col.of the CUNY	10	10	2	1			2			
NORTH CAROLINA										
Appalachian State U.	10	12	13	13			13			
Davidson Col.	10	8	6	6			1			
**Duke U.	29	15	(12)	6	42	6	12	0	2	7
*East Carolina U.	40	35	14	5	9	2	3	1	2	
Elizabeth City State U.	2	2	2	2			0			
Elon Col.	2	2	1	2			1			
Guilford Col.	12	9	8	8			6			
NC A & T State U.	(3)	(3)	(2)	(2)			(1)			
NC Central U.	6	10	1	2			1			
**NC State U.	(15)	(15)	16	8	58	5	7	0	2	1
NC-U.of-Asheville	7	7	5	8			8			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
NORTH CAROLINA (cont'd)										
**NC-U.of-Chapel Hill	20	20	23	16	43	13	21	2	1	4
NC-U.of-Charlotte	18	9	4	14			4			
*NC-U.of-Greensboro	7	6	4	1	6	3	1	0	1	
NC-U.of-Wilmington	(2)	(4)	(3)	(3)			(4)			
Pfeiffer Col.	2	1	1	1			0			
*Wake Forest U.	10	10	10	4	2	1	5	1	0	
Warren Wilson Col.	(5)	(5)	(4)	(4)			(2)			
Western Carolina U.	2	2	4	2			4			
NORTH DAKOTA										
Minot State Col.	2	1	0	1			1			
**ND State U.	(8)	(8)	5	2	7	3	7	0	0	0
**ND-U.of	8	6	6	1	3	0	2	0	1	1
OHIO										
1**Air Force Institute of Tech.	-	-	-	-	48	25	-	-	22	2
*Akron-U.of	(10)	(10)	(10)	(10)	(20)	(7)	(8)	(1)	(2)	
Antioch Col.	1	1	2	4			1			
Ashland Col.	2	0	0	0			0			
Baldwin-Wallace Col.	(3)	(1)	(1)	(1)			(2)			
*Bowling Green State U.	4	6	6	4	5	5	5	0	4	
Capital U.	3	0	4	0			0			
**Case Western Reserve U.	35	19	14	21	28	8	20	0	3	6
**Cincinnati-U.of	24	12	6	11	50	13	9	5	5	6
*Cleveland State U.	6	6	12	1	11	3	6	1	2	
*Dayton-U.of	10	7	8	3	0	0	3	0	0	
Defiance Col.	(1)	(2)	(0)	(0)			(2)			
Denison U.	6	3	5	1			5			
Heidelberg Col.	3	5	3	2			1			
Hiram Col.	5	2	3	3			2			
*John Carroll U.	12	10	8	6	5	4	10	1	3	
**Kent State U.	16	8	7	13	51	14	6	7	7	5
Kenyon Col.	12	12	8	7			8			
*Miami U.	49	31	18	30	12	8	29	0	4	
Mount Union Col.	10	10	(7)	(6)			5			
Muskingum Col.	0	0	1	2			0			
Oberlin Col.	20	15	14	10			16			
OH Northern U.	0	0	1	2			1			
**OH State U.	16	30	25	34	104	24	14	2	3	12
**OH U.	24	8	8	5	61	28	8	2	5	8
OH Wesleyan U.	5	5	3	3			3			
Otterbein Col.	1	1	1	0			1			
**Toledo-U.of	39	10	9	17	32	7	5	1	6	2
Wittenberg U.	12	12	7	3			5			
Wooster-Col.of	10	6	0	1			2			
*Wright State U.	11	2	3	9	8	1	3	0	4	
Xavier U.	16	6	8	4			9			
Youngstown State U.	5	4	2	2			1			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
OKLAHOMA										
Bethany Nazarene Col.	6	3	3	0			2			
Cameron U.	(4)	(4)	(2)	(2)			(4)			
*Central State U.	14	6	10	14	3	3	10	0	0	
East Central State U.	23	20	12	5			5			
Northeastern OK State U.	(12)	(12)	(10)	(12)			(8)			
Northwestern OK State U.	(2)	(2)	(1)	(1)			(0)			
OK City U.	3	2	16	14			6			
**OK State U.	12	17	8	3	34	5	3	2	0	5
**OK-U.of	30	30	16	19	42	10	0	12	0	4
Phillips U.	1	3	1	1			1			
Southeastern OK State U.	2	1	1	0			2			
Southwestern OK State U.	15	12	12	15			3			
Tulsa-U.of	4	4	5	5			5			
OREGON										
Eastern OR State Col.	4	6	3	9			7			
Lewis & Clark Col.	5	5	6	5			2			
Linfield Col.	(5)	(5)	(4)	(4)			(3)			
1**OR Graduate Center	-	-	-	-	24	9	-	0	1	1
**OR State U.	27	18	10	12	27	13	7	3	1	1
**OR-U.of	17	17	11	18	78	14	10	6	3	9
Pacific U.	3	2	3	4			1			
**Portland State U.	6	3	11	7	21	7	1	0	1	0
Portland-U.of	1	3	0	1			0			
Reed Col.	29	24	14	15			13			
Southern OR State Col.	3	5	6	2			2			
Willamette U.	10	10	11	7			6			
PENNSYLVANIA										
Albright Col.	3	3	4	4			1			
Allegheny Col.	15	10	9	1			2			
*Bloomsburg State Col.	3	2	2	2	2	0	3	0	1	
**Bryn Mawr Col.	4	10	5	7	4	0	2	1	0	1
Bucknell U.	7	9	9	1			11			
California State Col.of PA	10	5	3	3			0			
**Carnegie-Mellon U.	36	41	29	25	51	13	12	11	6	8
Clarion State Col.	10	8	7	8			5			
Dickinson Col.	10	8	8	6			7			
**Drexel U.	20	20	18	14	40	5	9	1	2	3
Duquesne U.	3	4	2	0			2			
East Stroudsburg State Col.	3	2	4	3			0			
Edinboro State Col.	8	6	2	2			1			
Elizabethtown Col.	(2)	(2)	(0)	(0)			(0)			
Franklin & Marshall Col.	(20)	22	15	14			21			
Gannon Col.	2	7	1	1			2			
Geneva Col.	1	1	1	1			1			
Gettysburg Col.	16	8	15	8			13			
Grove City Col.	2	2	3	2			3			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
PENNSYLVANIA (cont'd)										
Haverford Col.	(10)	(10)	(8)	(8)			(7)			
*Indiana U.of PA	21	10	6	9	15	7	7	1	3	
Juniata Col.	3	3	3	4			0			
King's Col.	2	1	1	1			1			
Kutztown State Col.	3	0	1	2			1			
Lafayette Col.	2	3	4	4			4			
La Salle Col.	5	3	3	2			3			
Lebanon Valley Col.	12	4	9	1			5			
**Lehigh U.	14	11	7	10	34	5	6	2	0	2
Lincoln U.	1	1	0	1			1			
Lock Haven State Col.	1	0	1	2			0			
Lycoming Col.	10	9	6	2			2			
Mansfield State Col.	10	10	15	7			4			
Millersville State Col.	27	25	19	16			7			
Moravian Col.	10	7	6	6			2			
Muhlenberg Col.	4	5	5	6			6			
**PA State U.	27	21	28	17	93	23	21	3	5	7
**PA-U.of	8	10	11	8	76	20	21	2	8	11
**Pittsburgh-U.of	18	18	32	32	80	20	10	3	8	11
Saint Joseph's U.	12	4	6	8			4			
Saint Vincent Col.	2	1	2	2			0			
*Scranton-U.of	1	3	6	6	15	7	8	1	3	
*Shippensburg State Col.	(5)	(5)	(4)	(4)	(12)	(3)	(4)	(0)	(2)	
Slippery Rock State Col.	3	2	2	1			1			
Susquehanna U.	6	5	4	2			4			
Swarthmore Col.	18	17	20	9			7			
**Temple U.	10	8	4	7	34	10	5	5	2	10
Thiel Col.	2	1	2	0			1			
Ursinus Col.	3	2	3	6			5			
Villanova U.	9	7	3	3			5			
Washington & Jefferson Col.	4	4	3	3			1			
West Chester State Col.	10	10	1	0			4			
Westminster Col.	9	6	1	2			4			
Widener Col.	2	2	1	0			0			
*Wilkes Col.	9	3	3	8	4	0	4	0	0	
RHODE ISLAND										
**Brown U.	20	10	8	14	89	23	13	5	1	11
Providence Col.	0	2	0	5			1			
**RI-U.of	12	8	7	7	19	4	5	1	1	1
SOUTH CAROLINA										
Benedict Col.	15	12	11	5			1			
Bob Jones U.	11	7	0	3			1			
Charleston-Col.of	4	12	15	1			4			
Citadel, The	12	5	5	9			4			
**Clemson U.	5	5	12	11	29	10	6	1	1	5
Converse Col.	1	1	0	0			0			

Institution	1979 - 1980 PHYSICS ENROLLMENTS Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	Sr's incl. 5th-yr.	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES Bach.	MS	TMS	PhD's
SOUTH CAROLINA (cont'd)										
Erskine Col.	3	3	3	0			3			
Furman U.	(6)	(4)	(1)	(2)			(1)			
Presbyterian Col.	(5)	(5)	(4)	(2)			(1)			
SC State Col.	(3)	(4)	(3)	(0)			(0)			
**SC-U.of	12	13	5	8	28	5	3	4	4	2
Wofford Col.	2	2	2	1			2			
SOUTH DAKOTA										
Augustana Col.	10	5	5	3			6			
Northern State Col.	2	2	0	0			0			
*SD School of Mines & Tech.	6	4	3	0	3	2	9	0	2	
*SD State U.	7	5	8	12	5	1	5	0	0	
SD-U.of	(2)	(1)	(1)	(0)			(0)			
TENNESSEE										
Austin Peay State U.	3	3	4	4			5			
Belmont Col.	1	1	1	0			2			
Carson-Newman Col.	2	2	3	2			1			
Christian Brothers Col.	2	2	3	0			1			
David Lipscomb Col.	2	2	1	3			0			
*East TN State U.	4	6	3	3	0	0	1	0	0	
Fisk U.	7	6	3	3			2			
King Col.	2	2	1	1			1			
Maryville Col.	1	1	0	0			0			
*Memphis State U.	6	6	8	2	1	0	2	0	1	
Middle TN State U.	2	4	4	1			5			
South-The U.of The	12	6	6	7			1			
Southern Missionary Col.	5	4	2	0			1			
Southwestern at Memphis	8	6	13	4			1			
TN State U.	0	0	2	0			1			
TN Technological U.	10	6	3	3			10			
TN-U.of-Chattanooga	(4)	(5)	(6)	(6)			(6)			
**TN-U.of-Knoxville	28	17	15	18	38	6	10	2	0	5
**TN-U.of,Space Institute	-	-	-	-	23	3	-	0	3	0
**Vanderbilt U.	10	10	10	12	19	7	11	1	2	3
TEXAS										
Abilene Christian U.	45	20	7	4			3			
Angelo State U.	15	15	12	14			3			
Austin Col.	10	6	0	1			1			
**Baylor U.	15	10	12	4	11	2	8	2	0	3
Dallas Baptist Col.	1	1	0	3			0			
Dallas-U.of	10	5	1	4			1			
*East TX State U.	(8)	(8)	(9)	(7)	(12)	(4)	(5)	(3)	(3)	
Hardin-Simmons U.	(3)	(3)	(2)	(2)			(2)			
Houston Baptist U.	9	4	3	6			0			
**Houston-U.of	25	25	25	10	40	7	8	0	2	3
Huston Tillotson Col.	5	3	1	0			1			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
TEXAS (cont'd)										
Jarvis Christian Col.	5	3	2	0			1			
Lamar U.	4	4	6	8			5			
Mc Murry Col.	2	1	2	0			0			
Midwestern State U.	11	6	4	4			4			
**North TX State U.	18	18	11	16	41	7	5	2	1	3
Pan American U.	(5)	(5)	(2)	(2)			(3)			
Prairie View A & M U.	3	1	0	0			0			
**Rice U.	30	25	34	21	42	11	27	1	1	12
Saint Mary's U.	1	0	1	1			1			
*Sam Houston State U.	25	20	20	4	5	5	7	1	0	
**Southern Methodist U.	10	10	10	3	7	4	3	2	1	1
*Southwest TX State U.	20	5	8	9	9	2	4	0	1	
Southwestern U.	(1)	(2)	(2)	(2)			(1)			
*Stephen F. Austin State U.	15	10	10	10	8	4	10	1	0	
Tarleton State U.	0	0	0	1			0			
*TX A & I U.	6	5	1	2	4	3	1	0	0	
**TX A & M U.	37	23	22	25	48	12	17	3	0	8
**TX Christian U.	4	2	4	1	8	1	3	1	0	0
TX Southern U.	2	3	2	3			1			
**TX Tech U.	18	17	12	32	12	3	5	0	1	1
*TX-U.of-Arlington	30	11	13	25	22	7	12	0	5	
**TX-U.of-Austin	58	39	23	32	191	35	13	0	1	16
**TX-U.of-Dallas	0	0	19	6	34	10	10	13	1	8
*TX-U.of-El Paso	14	7	12	30	11	3	9	0	6	
*TX Woman's U.	(2)	(1)	(1)	(1)	(0)	(0)	(0)	(0)	(0)	
*Trinity U.	3	0	2	3	6	5	1	0	0	
West TX State U.	2	2	1	2			0			
UTAH										
**Brigham Young U.	38	27	20	29	22	2	20	0	2	1
**UT State U.	11	9	4	6	15	5	2	1	0	1
**UT-U.of	25	18	10	20	53	11	8	0	0	4
Weber State Col.	10	10	5	5			0			
Westminster Col.	4	2	2	1			0			
VERMONT										
Marlboro Col.	2	1	1	1			0			
Middlebury Col.	9	8	8	8			8			
Norwich U.	2	2	2	0			4			
Saint Michael's Col.	7	5	4	0			1			
**VT-U.of	15	15	16	13	3	1	8	1	3	2
VIRGINIA										
Bridgewater Col.	4	2	2	1			2			
Emory & Henry Col.	2	2	3	2			2			
George Mason U.	23	6	10	5			4			
Hampden-Sydney Col.	3	3	4	2			0			
Hampton Institute	3	3	2	4			1			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
VIRGINIA (cont'd)										
2*James Madison U.	9	14	8	8	2	0	5	0	0	
Longwood Col.	15	8	6	1			5			
*Lynchburg Col.	3	7	6	8	17	4	4	0	1	
Mary Washington Col.	6	6	12	4			7			
Norfolk State Col.	(5)	(2)	(5)	(5)			(3)			
*Old Dominion U.	12	12	13	12	32	12	5	3	4	
Randolph Macon Col.	5	4	1	2			0			
Randolph-Macon Woman's Col.	1	1	1	1			1			
Richmond-U.of	6	5	6	3			7			
Roanoke Col.	3	3	3	2			1			
Sweet Briar Col.	(4)	(4)	(3)	(3)			(1)			
VA Commonwealth U.	18	17	6	5			5			
VA Military Institute	14	13	10	9			5			
**VA Poly.Tech Inst.& State U.	35	12	15	9	46	11	12	0	0	2
*VA State U.	(4)	(4)	(5)	(6)	(2)	(0)	(5)	(0)	(1)	
**VA-U.of	30	22	20	25	67	9	30	4	6	13
Washington & Lee U.	(6)	(6)	(3)	(4)			(4)			
**William & Mary, Col.of	25	25	15	15	31	8	17	11	1	6
WASHINGTON										
Central WA U.	2	3	6	2			1			
Eastern WA U.	4	4	3	2			2			
Evergreen State Col.	10	10	5	5			0			
Gonzaga U.	2	0	1	1			0			
Pacific Lutheran U.	6	2	3	3			1			
Puget Sound-U.of	8	4	8	4			2			
Seattle Pacific U.	7	0	5	1			0			
Seattle U.	6	0	4	1			4			
Walla Walla Col.	5	1	2	1			2			
**WA State U.	10	10	10	9	32	9	14	9	0	4
**WA-U.of	38	39	40	55	125	16	48	9	7	9
*Western WA U.	10	15	15	10	1	1	8	1	2	
Whitman Col.	25	12	6	3			7			
Whitworth Col.	6	3	3	2			2			
WEST VIRGINIA										
Bethany Col.	12	4	1	1			3			
Marshall U.	4	3	2	3			1			
WV Institute of Tech.	1	3	0	3			2			
**WV U.	8	8	5	5	28	7	3	2	6	2
WV Wesleyan Col.	15	15	7	6			6			
Wheeling Col.	3	5	1	2			2			
WISCONSIN										
Beloit Col.	4	5	2	3			8			
Carroll Col.	(1)	(2)	(3)	(2)			(1)			
Carthage Col.	2	1	3	0			0			
Lawrence U.	(4)	(3)	(5)	(8)			(2)			

Institution	1979 - 1980 PHYSICS ENROLLMENTS: Undergraduate physics majors Fresh-men	Sopho-mores	Jr's	incl. 5th-yr. Sr's	Graduate students Total	1st yr.	1978 - 1979 PHYSICS DEGREES: Bach.	MS	TMS	PhD's
WISCONSIN (cont'd)										
*Marquette U.	5	6	5	3	6	4	6	1	0	
Northland Col.	4	2	3	1			0			
Ripon Col.	8	5	4	4			4			
WI-U.of-Eau Claire	12	13	10	12			10			
WI-U.of-Green Bay	5	5	3	3			2			
WI-U.of-La Crosse	9	5	0	2			3			
**WI-U.of-Madison	18	20	19	21	157	27	14	10	5	19
**WI-U.of-Milwaukee	8	8	4	8	31	6	9	8	1	6
*WI-U.of-Oshkosh	9	6	4	5	4	3	6	0	0	
WI-U.of-Parkside	(15)	(10)	(8)	(8)			(3)			
WI-U.of-Platteville	2	2	3	2			1			
WI-U.of-River Falls	14	11	6	5			4			
WI-U.of-Stevens Point	10	5	2	3			2			
WI-U.of-Superior	19	3	4	4			6			
WI-U.of-Whitewater	8	5	0	2			1			
WYOMING										
**WY-U.of	10	7	5	7	38	14	3	0	3	4

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AIP report MANPOWER STATISTICS DIVISION

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DATA ON ASTRONOMY ENROLLMENTS AND DEGREES

a SUPPLEMENT

AIP Pub. No. R-151.17B by Susanne D. Ellis March 1980

SUPPLEMENT

This supplement is an institutional listing of the 70 degree-granting astronomy departments in the U.S., 31 of which are combined physics and astronomy departments. The numbers shown in parentheses are estimates based on data reported by the institution in an earlier year.

Notations used in this supplement:

- *** = Institution grants master's degree as its highest astronomy degree.**
- **** = Institution grants doctorate as its highest astronomy degree.**
- **1 = No undergraduate astronomy degree program.**
- **C = Combined physics and astronomy department.**
- **S = Separate astronomy department.**

MEMBER SOCIETIES:
AMERICAN PHYSICAL SOCIETY • OPTICAL SOCIETY OF AMERICA • ACOUSTICAL SOCIETY OF AMERICA • SOCIETY OF RHEOLOGY • AMERICAN ASSOCIATION OF PHYSICS TEACHERS • AMERICAN CRYSTALLOGRAPHIC ASSOCIATION • AMERICAN ASTRONOMICAL SOCIETY • AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE • AMERICAN VACUUM SOCIETY

Institution	Type of Dept.	1979-1980 ASTRONOMY ENROLLMENTS Introductory Sci.	Nonsci.	Undergrad. majors Jrs.	Srs.	Graduate student Total	1st yr.	1978-79 ASTRONOMY DEGREES BS BA	MS	TMS	PhD
ARIZONA											
**Arizona-U. of	S	-	1 250	11	6	20	4	4	-	1	5
STATE TOTAL		-	1 250	11	6	20	4	4	-	1	5
CALIFORNIA											
**CA Inst. of Tech.	C	15	-	6	4	21	3	8	2	1	3
**CA-U.of-Berkeley	S	53	508	14	8	33	3	9	5	-	7
**CA-U.of-Los Angeles	S	83	2 722	4	1	21	6	1	4	0	2
1**CA-U.of-Santa Cruz	S	27	212	-	-	21	5	-	-	0	3
*San Diego State U.	S	-	675	10	15	21	7	5	-	4	
Southern CA-U.of	S	51	555	3	5	-	-	0			
STATE TOTAL		229	4 672	37	33	117	24	23	11	5	15
COLORADO											
1**CO-U.of-Boulder (Astro-Geophysics)	S	-	1 350	-	-	40	12	-	0	2	0
STATE TOTAL		-	1 350	-	-	40	12	-	0	2	0
CONNECTICUT											
*Wesleyan U.	S	20	100	1	2	2	1	2	0	0	
**Yale U.	S	35	90	2	3	13	4	0	6	-	0
STATE TOTAL		55	190	3	5	15	5	2	6	0	0
DELAWARE											
*Delaware-U.of	C	50	150	1	1	2	0	0	-	2	
STATE TOTAL		50	150	1	1	2	0	0	-	2	
DISTRICT OF COLUMBIA											
1**Howard U.	C	-	-	-	-	1	0	-	0	0	0
STATE TOTAL		-	-	-	-	1	0	-	0	0	0
FLORIDA											
*FL Inst. of Tech.(S.S.)	C	42	-	13	12	6	3	11	0	1	
1**FL-U.of-Gainesville	S	45	1 500	-	-	26	6	-	1	0	4
*South FL-U.of	S	0	0	0	0	0	0	0	4	0	
STATE TOTAL		87	1 500	13	12	32	9	11	5	1	4
GEORGIA											
GA-U.of	C	-	250	2	1	-	-	0			
Valdosta State College	C	8	100	1	0	-	-	3			
STATE TOTAL		8	350	3	1	-	-	3			

Institution	Type of Dept.	1979-1980 ASTRONOMY ENROLLMENTS Introductory Sci.	Introductory Nonsci.	Undergrad. majors Jrs.	Undergrad. majors Srs.	Graduate student Total	1st yr.	1978-79 ASTRONOMY DEGREES BS BA	MS	TMS	PhD
HAWAII											
1**Hawaii-U. of	C	-	580	-	-	17	4	-	0	-	2
STATE TOTAL		-	580	-	-	17	4	-	0	-	2
ILLINOIS											
1**Chicago-U.of	S	0	135	-	-	14	2	-	0	0	3
**IL-U.of-Urbana	S	165	890	7	5	12	1	5	4	2	2
**Northwestern U.	C	-	261	2	4	4	0	3	1	1	0
STATE TOTAL		165	1 286	9	9	30	3	8	5	3	5
INDIANA											
**IN-U. of-Bloomington	S	70	600	3	3	12	0	9	2	-	2
STATE TOTAL		70	600	3	3	12	0	9	2	-	2
IOWA											
Drake U.	C	-	57	0	0	-	-	0			
1**Iowa State U.	C	24	342	-	-	6	0	-	0	1	1
*Iowa-U. of	C	153	89	5	5	9	2	0	1	0	
STATE TOTAL		177	488	5	5	15	2	0	1	1	1
KANSAS											
KS- U. of	C	34	105	1	0	-	-	1			
STATE TOTAL		34	105	1	0	-	-	1			
KENTUCKY											
KY-U. of	C	-	482	0	1	-	-	1			
STATE TOTAL		-	482	0	1	-	-	1			
MARYLAND											
**MD- U. of	S	70	1 600	8	12	35	3	8	2	3	4
STATE TOTAL		70	1 600	8	12	35	3	8	2	3	4
MASSACHUSETTS											
**Boston U.	S	60	600	6	4	9	3	4	2	1	2
**Harvard U.	S	6	613	6	4	28	10	6	3	-	3
**MA-U.of-(5-College)	S	120	1 000	14	15	23	5	11	4	0	2
Wellesley College	S	20	150	5	3	-	-	1			
Williams College	C	21	74	2	2	-	-	3			
STATE TOTAL		227	2 437	33	28	60	18	25	9	1	7
MICHIGAN											
MI State U.	S	87	289	11	15	-	-	5			
**MI-U. of	S	60	1 425	7	5	12	1	4	5	2	1
STATE TOTAL		147	1 714	18	20	12	1	4	5	2	1

Institution	Type of Dept.	1979-80 ASTRONOMY ENROLLMENTS Introductory Sci.	Introductory Nonsci.	Undergrad. majors Jrs.	Undergrad. majors Srs.	Graduate student Total	1st yr.	1978-79 ASTRONOMY DEGREES BS BA	MS	TMS	PhD
MINNESOTA											
Mankato State U.	C	-	450	5	5	-	-	5			
**MN-U. of	S	124	3 500	11	8	7	4	2	0	-	0
STATE TOTAL		124	3 950	16	13	7	4	7	0	-	0
MISSOURI											
Central Methodist College	C	3	15	0	0	-	-	0			
**MO- U. of-Columbia	C	5	200	0	0	3	1	1	0	0	0
STATE TOTAL		8	215	0	0	3	1	1	0	0	0
NEBRASKA											
**NE- U. of-Lincoln	C	10	342	0	0	3	2	1	0	0	1
STATE TOTAL		10	342	0	0	3	2	1	0	0	1
NEW JERSEY											
**Princeton U.	S	17	100	0	1	11	4	1	1	-	2
STATE TOTAL		17	100	0	1	11	4	1	1	-	2
NEW MEXICO											
1**NM State U.	S	20	280	-	-	16	4	-	3	3	1
NM- U. of	C	25	323	1	4	-	-	4			
STATE TOTAL		45	603	1	4	16	4	4	3	3	1
NEW YORK											
**Columbia U.	S	50	655	3	3	10	2	1	0	3	0
1**Cornell U.	S	200	400	-	-	22	6	-	0	3	6
**Rochester-U.of	C	31	63	15	7	9	2	5	1	-	1
**SUNY-Stony Brook (Earth & Space Sciences	S	56	218	0	0	14	5	0	-	1	1
Vassar College	C	10	37	2	1	-	-	1			
STATE TOTAL		347	1 373	20	11	55	15	7	1	7	8
OHIO											
**Case Western Reserve U.	S	9	57	2	4	5	1	1	0	0	3
Mount Union College	C	-	20	0	1	-	-	0			
**OH State U.	S	30	2 700	8	7	19	2	5	0	1	0
Youngstown State U.	C	15	500	2	0	-	-	0			
STATE TOTAL		54	3 277	12	12	24	3	6	0	1	3
OKLAHOMA											
OK-U. of	C	-	260	3	7	-	-	0			
STATE TOTAL		-	260	3	7	-	-	0			

Institution	Type of Dept.	1979-80 ASTRONOMY ENROLLMENTS Introductory Sci.	Introductory Nonsci.	Undergrad. majors Jrs.	Undergrad. majors Srs.	Graduate student Total	Graduate student 1st yr.	1978-79 ASTRONOMY DEGREES BS BA	MS	TMS	PhD
PENNSYLVANIA											
Haverford College	S	5	50	3	2	-	-	1			
Lycoming College	C	-	96	1	2	-	-	1			
**PA State U.	S	55	800	7	6	14	3	3	1	1	2
**PA- U. of	S	-	526	3	5	13	1	8	2	1	0
1**Pittsburgh-U. of	C	(60)	(150)	-	-	(6)	(1)	-	-	-	4
*Swarthmore College	S	9	86	0	2	0	0	1	-	1	
Villanova U.	S	73	240	6	5	-	-	1			
STATE TOTAL		202	1 948	20	22	33	5	15	3	3	6
SOUTH CAROLINA											
**Clemson U.	C	59	505	2	1	3	0	0	1	0	0
STATE TOTAL		59	505	2	1	3	0	0	1	0	0
TENNESSEE											
*Vanderbilt U.	C	7	142	1	2	3	1	1	0	1	
STATE TOTAL		7	142	1	2	3	1	1	0	1	
TEXAS											
1**Rice U.-Space Physics	S	20	78	-	-	39	10	-	6	3	6
**TX- U. of-Austin	S	78	4 214	4	15	42	8	4	6	1	6
STATE TOTAL		98	4 292	4	15	81	18	4	12	4	12
UTAH											
**Brigham Young U.	C	23	186	2	1	3	0	1	0	0	0
STATE TOTAL		23	186	2	1	3	0	1	0	0	0
VERMONT											
Marlboro College	C	-	5	1	0	-	-	0			
STATE TOTAL		-	5	1	0	-	-	0			

Institution	Type of Dept.	1979-1980 ASTRONOMY ENROLLMENTS Introductory Sci.	Introductory Nonsci.	Undergrad. majors Jrs.	Undergrad. majors Srs.	Graduate student Total	Graduate student 1st yr.	1978-79 ASTRONOMY DEGREES BS BA	MS	TMS	PhD
VIRGINIA											
**VA- U. of	S	60	1 700	5	5	17	6	6	1	2	2
STATE TOTAL		60	1 700	5	5	17	6	6	1	2	2
WASHINGTON											
**WA- U. of	S	56	430	(2)	(2)	21	4	1	1	0	3
STATE TOTAL		56	430	(2)	(2)	21	4	1	1	0	3
WISCONSIN											
**WI-U. of-Madison	S	-	370	5	8	10	2	5	4	-	2
STATE TOTAL		-	370	5	8	10	2	5	4	-	2
WYOMING											
WY-U. of	C	7	162	0	2	-	-	1			
STATE TOTAL		7	162	0	2	-	-	1			
U.S. TOTAL		2 436	38 614	239	242	698	154	165	73	42	86